

## POSIDON - WB-57 #927 10/25/16 Science Report

**Aircraft:**

[WB-57 #927](#) ([See full schedule](#))

**Date:**

Tuesday, October 25, 2016

**Mission:**

POSIDON

**Mission Location:**

Guam

**Mission Summary:**

This flight provided measurements of trace gases and ice crystal microphysical properties in anvil cirrus after the convection had subsided and in cold cirrus near the tropopause. Enhanced ozone concentrations in the uppermost troposphere were also measured on this flight.

**Submitted by:**

Susan Kimi McFadden on 11/11/16

**File:**

 [POSIDON\\_RF07\\_report.pdf](#)

**Related Flight Report:**

### WB-57 #927 10/25/16

**Flight Number:**

14

**Payload Configuration:**

POSIDON

**Nav Data Collected:**

No

**Total Flight Time:**

4.5 hours

**Submitted by:**

Debra Willett on 10/25/16

**Flight Segments:**

<b>From:</b>	PGUM	<b>To:</b>	PGUM
<b>Start:</b>	10/25/16 13:42 Z	<b>Finish:</b>	10/25/16 18:12 Z
<b>Flight Time:</b>	4.5 hours		
<b>Log Number:</b>	<a href="#">17W003</a>	<b>PI:</b>	Eric Jensen
<b>Funding Source:</b>	Ken Jucks - NASA - SMD - ESD Upper Atmosphere Research Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Payloads: MMS, DLH, SID3, CPI, 2DS, SO2, H2O, POPS, WAS, PANTHER AND 03 LITE. SATCOM type was INMARSAT. High flight. Despite the delayed takeoff, significant science objectives were achieved and the high FCF was accomplished in the abbreviated sortie		

**Flight Hour Summary:**

	16W007	17W003
<b>Flight Hours Approved in SOFRS</b>	58	42
<b>Flight Hours Previously Approved</b>		50.5
<b>Total Used</b>	7.5	90.3
<b>Total Remaining</b>		2.2

**17W003 Flight Reports**

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
<a href="#">10/01/16</a>	3	Ferry	4.4	4.4	88.1
<a href="#">10/02/16</a>	4	Ferry	5.7	10.1	82.4

<a href="#">10/03/16</a>	5	Ferry	5.9	16	76.5
<a href="#">10/09/16</a>	6	Ferry	4.2	20.2	72.3
<a href="#">10/12/16</a>	7	Science	5.7	25.9	66.6
<a href="#">10/14/16</a>	8	Science	5.3	31.2	61.3
<a href="#">10/15/16</a>	9	Science	4.8	36	56.5
<a href="#">10/18/16</a>	10	Science	5.7	41.7	50.8
<a href="#">10/19/16</a>	11	Science	5.7	47.4	45.1
<a href="#">10/21/16</a>	12	Science	5.6	53	39.5
<a href="#">10/24/16</a>	13	Check	1.3	54.3	38.2
<a href="#">10/25/16</a>	14	Science	4.5	58.8	33.7
<a href="#">10/26/16</a>	15	Science	5.5	64.3	28.2
<a href="#">10/28/16</a>	16	Science	5.4	69.7	22.8
<a href="#">10/31/16</a>	17	Ferry	5.2	74.9	17.6
<a href="#">11/01/16</a>	18	Ferry	5.9	80.8	11.7
<a href="#">11/02/16</a>	19	Ferry	5.6	86.4	6.1
<a href="#">11/03/16</a>	20	Ferry	3.9	90.3	2.2

**Source URL:** [https://airbornescience.nasa.gov/science\\_reports/POSIDON\\_-\\_WB-57\\_927\\_10\\_25\\_16\\_Science\\_Report](https://airbornescience.nasa.gov/science_reports/POSIDON_-_WB-57_927_10_25_16_Science_Report)

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NASA Official: Bruce A. Tagg

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*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

#### 16W007 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining
<a href="#">09/13/16</a>	1	Science	2.1	2.1	55.9
<a href="#">09/15/16</a>	2	Science	5.4	7.5	50.5